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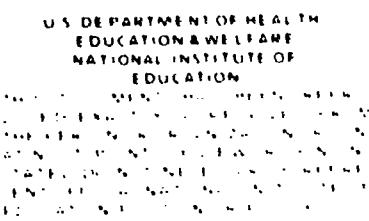
ABSTRACT

This report presents Washington Pre-College test norms for the 1973 entering freshman class. Percentile charts for male, female, and total groups are given. A table of the 75th, 50th, and 25th percentile scores over the past four years for the three groups is included. Another table presents means and standard deviations for the grade point averages of the seven high school areas and for the twelve Pre-College results over the same period. In contrast to the previous year's norms, there is a slight decrease in English Usage and a notable increase in the Mechanical Reasoning median scores for both sexes. (Author)

Educational Assessment Center

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Washington Pre-College Test Norms  
for University of Washington Freshmen

Entering Autumn 1973

Virginia A. de Wolf

This report presents Washington Pre-College test norms for the 1973 entering freshman class. Percentile charts for male, female, and total groups are given. A table of the 75th, 50th, and 25th percentile scores over the past four years for the three groups is included. Another table presents means and standard deviations for the grade point averages of the seven high school areas and for the twelve Pre-College results over the same period. In contrast to the previous year's norms, there is a slight decrease in English Usage and a notable increase in the Mechanical Reasoning median scores for both sexes.

Educational Assessment Center Project: 277

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Washington Pre-College Test Norms for University of Washington

Freshmen Entering Autumn 1973

Virginia A. de Wolf

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The Washington Pre-College (WPC) Test norms and high school grade point averages (GPAs) for freshmen entering the University of Washington in Autumn Quarter, 1973, are presented in this report. Tables 1 and 2 present useful summarizations of WPC data over the past four years for the three groups of freshman students--male, female, and total: Means and standard deviations (SDs) in Table 1; and 75th, 50th, and 25th percentile norms in Table 2. Percentile charts for the male, female, and total freshman groups entering in Autumn 1973 comprise Tables 3, 4, and 5 respectively.

The WPC testing program describes high school coursework in seven areas: overall, English, foreign languages, social sciences, mathematics, natural sciences, and elective courses. For the percentile charts, Tables 3-5, area GPAs are rounded off to the nearest tenth and then entered onto the chart, decimal points being omitted. The WPC battery contains ten tests and two composite scores--the Verbal Composite and the Quantitative Composite. The Verbal Composite score is a linear combination of the English Usage, Spelling, Reading Comprehension, and Vocabulary scores, and the Quantitative Composite of the Applied Mathematics, Quantitative Skills, and Mathematics Achievement scores. All of the test results are reported in standard score form so that the mean for each test is 50 and the SD is 10. When examining the enclosed tables, the reader should remember that these standard scores are based upon the entire group of Washington State high school juniors who took the WPC Short Form B battery in spring of 1971.

Additions to this annual report of WPC norms are Tables 1 and 2. In the first table means and SDs over the past four years for all WPC test and composite scores, plus the seven high school area GPAs, are included. These data were made available by a WPC program. All area GPAs for both sexes have increased over last year's figures.

Table 2 contains the ten WPC test scores and two composite scores of the entering freshmen over the past four years at the 75th, 50th, and 25th percentiles. A comparison of the WPC median scores with last year's yields the following observations. For both male and female freshmen, the median English Usage scores have decreased and the median Mechanical Reasoning scores have notably increased over the past year. Median scores for the males in the WPC Quantitative Skills and Mathematics Achievement tests increased slightly. A large drop in the median Reading Speed score and a slight drop in the median Verbal Composite score are the only other changes in the female students' median scores. In all of the quantitative areas, the freshman males' percentile scores greatly exceed the corresponding scores of the females.

The percentile charts, Tables 3-5, are again presented for the use of freshman advisors and counselors. By plotting a student's WPC results against the norms for his/her entering class, a comparative profile can be developed. This profile can aid in guiding a student in his/her academic program. For an illustrative example in plotting such a profile, see de Wolf, 1974.

#### Reference

- de Wolf, V. Washington Pre-College test norms for University of Washington freshmen entering autumn 1972. Seattle: Educational Assessment Center, University of Washington, 1974. (Duplicated report)

Table I

Means and Standard Deviations of the Seven High School GPA Areas, the Ten Tests and Two Composites as Reported by WPC Data Retrieval for Freshmen Entering the U of W Autumn Quarters, 1970-1973

HS GPA's												WPC Scores*											
	Over All	For Engl	For Lang	Soc	Math	Nat	Sci	VOC	EU	SP	RS	RC	VC	CS	AM	MA	QC	SA	MR				
Male																							
70 Mean	3.15	3.10	3.00	3.23	3.00	3.09	3.30	53.8	51.7	51.9	50.4	54.2	52.6	60.6	56.7	57.3	58.6	51.6	56.1				
SD	.48	.55	.73	.59	.69	.67	.60	9.3	7.5	10.1	7.4	9.5	8.7	10.1	9.6	7.3	8.5	9.4	10.5				
71 Mean	3.13	3.13	3.03	3.26	3.01	3.12	3.33	53.3	50.7	50.9	49.9	55.5	52.7	60.5	55.3	55.0	58.2	51.0	56.1				
SD	.47	.54	.77	.59	.71	.67	.58	9.5	7.9	9.5	7.9	9.6	8.5	10.0	10.5	6.8	8.5	9.4	10.4				
72 Mean	3.16	3.14	3.02	3.25	2.93	3.10	3.36	53.9	53.2	52.1	52.0	54.7	53.3	57.9	57.7	58.5	57.2	54.7	58.4				
SD	.49	.54	.77	.58	.73	.63	.60	9.8	9.4	10.0	10.0	9.9	9.6	9.3	10.1	9.6	9.4	10.1	11.1				
73 Mean	3.25	3.21	3.10	3.31	2.99	3.19	3.41	54.6	51.4	53.2	51.8	54.9	53.3	58.0	57.5	53.1	57.3	55.6	60.2				
SD	.42	.42	.57	.57	.57	.57	.55	9.4	9.3	10.2	10.5	10.1	9.6	9.7	9.6	9.5	9.6	9.6	11.1				
Female																							
70 Mean	3.26	3.34	3.21	3.30	2.90	3.07	3.45	54.7	54.2	54.5	49.0	53.0	54.9	53.9	53.0	50.6	51.6	53.0	48.7	44.5			
SD	.45	.50	.65	.58	.71	.68	.46	9.6	7.9	9.3	8.3	9.7	8.3	9.7	9.7	9.3	7.1	7.7	9.1	6.4			
71 Mean	3.26	3.35	3.26	3.29	2.86	3.09	3.45	53.8	52.3	53.5	48.4	53.6	54.4	53.6	49.2	50.4	52.3	47.7	47.7	44.1			
SD	.48	.54	.69	.60	.75	.70	.51	9.8	7.8	9.2	8.1	9.8	8.1	9.8	9.7	10.0	6.4	8.4	9.7	6.8			
72 Mean	3.33	3.42	3.34	3.37	2.93	3.17	3.49	54.3	55.6	54.9	50.1	53.1	55.7	55.7	52.4	52.9	51.9	52.1	46.2				
SD	.43	.49	.66	.57	.72	.69	.48	10.2	9.6	10.1	9.6	9.5	9.8	9.5	9.2	9.5	9.6	9.1	9.7	7.3			
73 Mean	3.35	3.43	3.35	3.39	2.94	3.27	3.51	54.4	53.6	55.5	49.4	52.7	55.2	52.3	52.9	52.6	51.7	52.9	48.9				
SD	.41	.41	.46	.62	.62	.72	.62	2.3	2.6	10.4	2.9	2.9	2.4	2.4	2.2	2.2	2.0	2.0	2.4	3.7			
Total																							
70 Mean	3.20	3.21	3.13	3.26	2.95	3.08	3.37	54.2	52.9	53.2	49.7	54.0	53.7	57.4	53.3	54.6	56.0	50.2	50.5				
SD	.48	.57	.70	.61	.71	.63	.57	9.6	7.8	9.5	8.1	9.6	8.1	9.6	10.4	9.8	7.8	8.3	9.4	10.4			
71 Mean	3.22	3.23	3.14	3.27	2.93	3.11	3.39	53.5	51.5	52.1	49.2	54.6	53.5	57.2	52.4	52.8	55.5	49.5	50.4				
SD	.46	.57	.74	.62	.75	.66	.54	9.8	7.6	9.6	8.0	9.8	8.7	10.3	10.9	7.3	8.5	9.4	11.0				
72 Mean	3.24	3.27	3.17	3.30	2.93	3.13	3.42	54.1	54.4	53.4	51.1	53.9	54.5	55.3	55.4	55.9	54.7	53.5	52.6				
SD	.48	.56	.75	.62	.73	.70	.57	9.9	9.3	10.3	9.3	10.0	9.5	10.5	10.2	9.6	9.4	9.8	11.2				
73 Mean	3.29	3.31	3.22	3.34	2.97	3.18	3.46	54.5	52.4	54.3	50.7	53.9	54.2	55.3	55.5	55.6	54.7	54.3	54.9				
SD	.47	.52	.72	.60	.74	.60	.50	2.6	2.7	10.2	10.1	9.3	10.3	10.0	10.0	10.2	9.2	2.2	2.7	11.4			

\*These 12 abbreviations represent the WPC tests and composite measures. They are ordered in the same sequence as in Tables 3-5, i.e., VOC = Vocabulary, EU = English Usage, etc.

Table 2

75th, 50th, and 25th Percentile Scores on the Ten WiC Tests and Two WPC Composite Scores for Male, Female, and Total Freshmen

Autumn Quarters, 1970-1973

WPC Scores*	VOC	EU	SF	RS	RC	VC	QS	AM	NA	CC	SA	AR
Male: 75th-1970	60	57	50	58	61	58	67	64	62	64	58	64
1971	60	56	57	56	62	53	68	63	60	64	57	64
1972	61	60	59	57	60	60	65	65	66	64	62	68
1973	61	58	60	57	62	60	65	65	66	64	62	68
50th-1970	54	51	50	52	54	52	61	57	57	59	52	56
1971	53	51	50	51	56	53	61	56	56	59	52	56
1972	54	53	50	53	55	53	58	58	59	53	57	57
1973	54	52	52	53	55	53	59	58	60	53	57	61
25th-1970	48	47	45	45	48	47	54	50	52	54	46	48
1971	47	46	45	45	50	47	54	49	51	53	44	48
1972	43	46	45	44	48	47	53	50	53	51	49	51
1973	49	45	46	44	48	46	53	50	53	51	49	51
Female: 75th-1970	61	60	60	55	60	61	61	58	56	53	56	43
1971	61	53	60	54	60	60	61	56	55	58	55	43
1972	61	62	61	55	59	62	58	60	59	58	59	51
1973	61	60	63	55	59	62	58	58	60	58	59	55
50th-1970	55	54	55	50	54	55	54	50	51	53	50	44
1971	53	53	52	48	53	54	53	49	50	52	49	42
1972	54	56	55	51	53	56	53	53	53	52	54	45
1973	54	54	55	48	53	55	53	53	53	52	54	47
25th-1970	48	49	43	44	47	49	48	45	46	43	44	38
1971	47	43	47	44	43	49	47	41	46	47	41	38
1972	47	50	43	44	48	49	46	45	46	46	46	40
1973	47	47	49	44	46	49	46	48	45	46	46	40
Total: 75th-1970	60	53	59	57	60	59	64	60	60	62	56	57
1971	60	57	58	54	61	59	64	60	58	62	57	58
1972	61	61	60	57	60	61	62	63	64	61	62	61
1973	61	59	61	57	60	61	63	63	64	61	62	63
50th-1970	54	53	52	50	54	53	58	54	54	56	51	49
1971	53	52	51	49	55	53	57	52	53	56	52	48
1972	54	55	53	50	55	54	56	55	56	55	54	51
1973	54	53	53	50	55	54	56	55	56	55	57	55
25th-1970	48	43	46	45	47	43	50	47	49	50	44	41
1971	47	47	46	44	43	48	50	44	43	50	44	41
1972	43	47	46	44	48	48	48	48	49	43	46	43
1973	48	45	46	44	48	47	43	50	43	48	49	45

\*These 12 abbreviations represent the WPC Tests and Composite measures. They are ordered in the same sequence as in Tables 3 - 5, i.e., VOC = Vocabulary, EU = English Usage, etc.

Table 3

PERCENTILE CHART FOR FRESHMEN ENTERING U OF W AUTUMN, 1973\* (Male Students)

The percentiles at the left indicate the approximate percentiles of male freshmen whose high school GPA's and test scores fell below the values in the body of the table. Percentiles for the nineteen measures are based on 1,551 males entering as U of W freshmen in 1973.

HIGH SCHOOL GPA'S QUITTING DECIMALS  
(Based on 6 semesters only)

PER-CEN-TILE** (max)	HIGH SCHOOL GPA'S QUITTING DECIMALS						WASHINGTON PRE-COLLEGE TEST SCORES												PER-CEN-TILE	
	All	Engl	Soc	Nat	Non-acad	Voc	Eng1	Read	Read	Verb	Quant	Appl	Math	Quant	Spat	Tech	Com	Astil	Reas	
	40	40	40	40	40	40	80	76	73	82	82	82	82	82	82	82	82	82	82	max)
98	39						75	69	79	73	75	74	79	73	74	72	79	79	93	
95	39	40					70	67	71	73	70	70	72	75	71	71	70	76	95	
91	38	39					68	64	68	66	63	67	70	71	70	69	68	74	91	
84	37	38	40	40	38	40	65	61	63	64	66	63	67	67	69	66	65	72	84	
75	36--	37--	38--	38--	36--	37--	39--	61--	58	60--	57--	62--	60--	65--	65--	66--	64--	62--	68	
63	34	35	35	36	33	35	37	53	56	56	55	58	56	63	60	63	61	59	65	
50	33	33	32	34	30	33	35	54	52	52	53	55	53	53	53	58	60	58	57	
37	31	31	29	32	27	30	33	51	48	49	47	52	50	55	55	56	55	54	57	
25	30--	28--	25--	30--	25--	28--	30--	49--	45--	46--	44--	43--	46--	46--	53--	50--	53--	51--	49--	
16	26	27	23	22	25	29	45	41	42	44	45	43	45	45	45	45	45	47	49	
9	27	25	20	25	20	23	26	42	38	40	38	41	41	44	44	45	43	44	49	
5	26	23	20	23	18	20	24	40	36	33	35	39	39	40	43	41	41	33	40	
2	23	20	13	13	14	16	21	35	32	36	31	34	35	36	37	36	37	34	2	

\*Data from examinees tested 1972-1973, i.e., use only for those students tested in high school in 1972 or those tested on UW campus as entering freshmen Autumn 1973. Data used for this chart were obtained solely from Short Form B.

\*\*Top GPA's and Standard Scores, respectively.

Table 4

PERCENTILE CHART FOR FRESHMEN ENTERING U OF W AUTUMN, 1973\* (Female Students)

The percentiles at the left indicate the approximate percent of female freshmen whose high school GPA's and test scores fell below the values in the body of the table. Percentiles for the nineteen measures are based on 1,332 females entering as U of W freshmen in 1973.

HIGH SCHOOL GPA'S OBTAINED DECLINALS  
(Based on 6 semesters only)

PER-CEN-TILE % (max.)	HIGH SCHOOL GPA'S OBTAINED DECLINALS						WASHINGTON PRE-COLLEGE TEST SCORES (Standard Scores Are Based on U.S. Juniors, Male and Female)										PER-CEN-TILE % (max.)			
	Over All	For Engl	Soc Lang	Sci Math	Non-Acad Sci	Voc Acad	Engl Usage	Read Spell	Verb Speed	Quant Comp	Appl Crrg Skills	Math Corr	Quant Att.	Ach Con	Abil Rcr	TIU				
	40	40	40	40	40	40	75	90	75	32	82	75	75	75	75	82				
98	40						76	71	79	71	74	75	71	72	71	70	69	69	98	
95	39						72	68	74	66	70	71	66	63	69	66	67	66	95	
91	39	40			40		69	66	71	64	67	69	64	66	66	64	65	62	91	
84	38	39	40	33	40	40	65	64	66	59	62	65	62	62	63	61	62	59	84	
75	37--	38--	40--	38--	35--	33--	39--	--	61	-60	--	63	--	55	--	59	--	53	--	55
63	35	37	38	37	33	35	37	53	57	58	53	56	56	56	55	55	57	51	63	
50	34	35	35	35	30	33	36	54	54	55	48	53	55	53	53	52	54	47	50	
37	32	33	32	33	27	30	35	50	51	51	45	50	52	49	50	49	49	50	44	
25	31--	32--	30--	30--	25--	23--	23--	--	47	-47	--	49	--	46	--	48	--	45	--	40
16	29	30	26	23	22	25	30	44	43	45	39	42	45	43	43	42	44	40	16	
9	28	23	24	26	19	22	29	42	40	42	37	40	42	39	40	40	39	40	9	
5	26	26	20	24	17	20	26	40	33	41	35	37	40	37	33	37	36	40	5	
2	23	25	16	21	14	16	22	36	32	33	31	32	36	33	36	34	34	40	2	

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\* Data from examinees tested 1972-1973, i.e., use only for those students tested in high school in 1972 or those tested on UW campus as entering freshmen Autumn 1973. Data used for this chart were obtained solely from Short Form B.

\*\*Top GPA's and Standard Scores, respectively.

Table 5

## PERCENTILE CHART FOR FRESHMEN ENTERING U OF W AUTUMN, 1973\* (All Students)

The percentiles at the left indicate the approximate percent of freshmen whose high school GPA's and test scores fell below the values in the body of the table. Percentiles for the nineteen measures are based on 2,933 (1,551 males, and 1,382 females) entering U of W as freshmen for 1973.

HIGH SCHOOL GPA'S DIFTING DETAILS  
(Based on 6 semesters only)

PER-CEN-TILE **(max)	HIGH SCHOOL GPA'S DIFTING DETAILS						WASHINGTON PRE-COLLEGE TEST SCORES (Standard Scores are Based on H.S. Juniors, Male and Female)										PER-CEN-TILE (max)		
	Over All	For Engl	Soc Lang	Sci Math	Non-Acad	Voc	Engl Usage	Spell Speed	Read Com	Verb Com	Quant Comp	Math Skills	Ach	Quant Com	Spat Abil	Mech Reas	75 C.I.		
98	40						76	70	79	73	75	74	77	72	73	72	79	93	
95	39						71	63	72	71	70	71	73	70	70	67	74	95	
91	35	40			40		63	66	69	65	67	63	68	69	69	67	65	71	91
34	37	33	40	40	35	40	65	62	65	61	64	64	66	65	67	64	64	68	34
75	36--	37--	39--	38--	35--	37--	39--	61--	59--	61--	57--	60--	61--	63--	63--	61--	62--	63	75
63	35	36	36	33	35	37	53	56	57	54	57	57	59	59	60	58	58	63	
50	33	34	33	35	30	33	54	53	53	50	55	54	56	55	56	55	57	55	50
37	32	32	30	32	27	30	34	51	50	49	46	50	51	52	53	53	52	50	37
25	30--	30--	23--	30--	25--	23--	32--	48--	45--	46--	44--	48--	47--	48--	50--	48--	48--	45--	25
16	29	28	25	23	22	25	30	45	43	44	42	44	44	45	46	44	44	44	16
9	27	26	22	25	20	22	27	42	39	41	38	40	41	40	42	41	41	40	9
5	26	24	20	23	18	20	25	40	36	39	35	37	39	33	36	33	39	40	5
2	23	21	15	19	14	16	21	36	32	36	31	32	35	34	36	34	34	40	2

\*Data from examinees tested 1972-1973, i.e., use only for those students tested in high school in 1972 or those tested on UW campus as entering freshmen Autumn 1973. Data used for this chart were obtained solely from Short Form B.

\*\*Top GPA's and Standard Scores, respectively.

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